				School	<u>; </u>		
Data She	et: Is Dec	ad Hors	e Bay	y Dead o	r <i>Alive</i> ?		
Your job is to experiments t	figure out if the	ne water is good quality. There	od for fis	to find out the ments of the first out to the fish listed on the first out to fish listed on the first out to fish listed out the first out to first out the first out to find out the ments out the first out to find out the ments out the first out the fir	isms to live in.	We will do	
Hypothesis	5:						
	t a sample of w			speed, and turb measure the wa			
<i>On Land:</i> Air Tempera	ture:						
Wind Speed:	Calm (1-3	mph)Bre	ezy (4-1	5 mph)Win	dy (16-30 mph))Gale (> 3	30 mph)
In Water: Turbidity:		cm		cm 2 nd Reading	c	m	
Place an "X" chart!	on the numbe			2 nd Reading ou received for			ark ever
	Atlantic Menha	den Fish			Atlantic Silversi		
Water Temperature (°C)	Dissolved Oxygen (mg/L)	Salinity (ppt)	рН	Water Temperature (°C)	Dissolved Oxygen (mg/L)	Salinity (ppt)	pН
)	0	4	1	0	0	6	1
5		6	2	5		8	2
10		8	3	10		10	3
15		10	4	15		12	4
20		12	5	20		14	5
25		14	6	25		16	6
30	4	16	7	30	4	18	7
35		18	8	35		20	8
40		20	9	40		22	9
45		22	10	45		24	10
50		24	11	50		26	11

Chart Key:

Cannot Live -Most Die Over 50 % die -Survival Possible 90-100% Survival

Chart Key:

-Cannot Live ____-Most Die ____-Over 50 % die ____ → ___-Survival Possible ____ → ___ 90-100% Survival

Mummichog				
Water	Dissolved	Salinity	pН	
Temperature	Oxygen	(ppt)		
(°C)	(mg/L)			
0	0	4	1	
5		6	2	
10		8	3	
15		10	4	
20		12	5	
25		14	6	
30	4	16	7	
35		18	8	
40		20	9	
45		22	10	
50		24	11	
55		26	12	
60		28	13	
65	8	30	14	

Striped Killifish				
Water	Dissolved	Salinity	pН	
Temperature	Oxygen	(ppt)		
(°C)	(mg/L)			
0	0	4	1	
5		6	2	
10		8	3	
15		10	4	
20		12	5	
25		14	6	
30	4	16	7	
35		18	8	
40		20	9	
45		22	10	
50		24	11	
55		26	12	
60		28	13	
65	8	30	14	

Tautog				
Water	Dissolved	Salinity	pН	
Temperature	Oxygen	(ppt)		
(°C)	(mg/L)			
0	0	4	1	
5		6	2	
10		8	3	
15		10	4	
20		12	5	
25		14	6	
30	4	16	7	
35		18	8	
40		20	9	
45		22	10	
50		24	11	
55		26	12	
60		28	13	
65	8	30	14	

Make a hypothesis predicting which fish you think you will find in the water. Based on the charts and your numbers, what fish will you find?

A Closer Look...

There are other organisms in the bay that help the fish to survive. They provide food and even oxygen for the fish. These tiny creatures are called plankton! Use your plankton net to catch the plankton and put them under your microscope. Circle the plankton you've observed.

Now......
Is Dead Horse Bay Dead or Alive?

